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The Amplifier - v. 8, no. 6

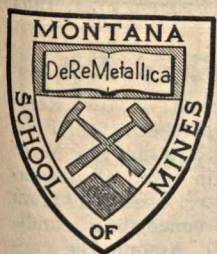
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Montana School of Mines AMPLIFIER

Published by the Associated Students of the Montana School of Mines

Vol. VII No. 6

Wednesday, February 21, 1962

Koenig and Michaelson Receive AIME Awards

Stanley D. Michaelson, of Salt Lake City, Chief Engineer, Western Mining Divisions, Kennecott Copper Corp., has been named by the American Institute of Mining, Metallurgical, and Petroleum Engineers to receive its Roberts H. Richards Award.

The honor, to be conferred formally on Feb. 21, 1962, in New York during the Institute's 91st Annual Meeting, is "for achievements in advancing mine plant and metallurgical engineering practice through significant contributions to process development, plant construction, the technical literature, and to education; and for leadership in organization and management of mineral engineering."

The general purpose of the Award, established in 1947 in memory of Dr. Robert H. Richards, who had been a President and Honorary Member of AIME, is to recognize achievement which "unmistakably furthers the art of minerals beneficiation," a field in which Mr. Michaelson has attained distinction.

Mr. Michaelson, who recently received an honorary professional degree from Montana School of Mines, was born in New York and attended Lehigh University and Columbia University. He received a B.S. in Mining Engineering at Lehigh in 1934, returning there the following year to study metallurgy under a Fellowship of the Lehigh Institute of Research.

Mr. Michaelson started his career with Bethlehem Steel Corp. at Bethlehem, Pa., then went to Allis-Chalmers Manufacturing Co. in Milwaukee. There he served as engineer in charge of the laboratory, metallurgical engineer, and sales and field engineer before entering the Army in 1941. Released in 1946, after becoming a Lieut. Colonel of Ordnance, he returned to Allis-Chalmers and was advanced to Director of Basic Industries Research Laboratories. While there he published a number of significant papers on crushing and grinding research, and engineering.

Mr. Michaelson became Special Engineer for Tennessee Coal and

Metals Society Presents Panel

"What Industry Expects of a Graduate Engineer" was the subject of a panel presented February 7 which was sponsored by the Mon-

Glee Club Plans For Spring Sing

The School of Mines Glee Club got off to a fresh start for second semester with the addition of several new members. Many of last year's members have returned second semester and the club now numbers nearly twenty. However, the Glee Club officers, Bill Coghlan, Sharon Breen, and Don Hruska, and club adviser, R. I. Smith, urge more students to join. Practice is held every Thursday afternoon at 4:15 in the Library-Museum hall.

The Club has had several invitations to give performances for various clubs in Butte. Two programs coming up in the near future are the Coed Tea (Feb. 18), and the next meeting of the Women's Society of the Methodist Church early in March.

At present, the Glee Club is practicing selections from *My Fair Lady*, *The Way You Look Tonight*, and various religious songs. If any students are interested in music or singing, they are urged to join the Glee Club.

Iron Division, U. S. Steel Corp. in 1947 and, a year later, was appointed Chief Engineer — Coal Mines. In 1951, he was named Chief Engineer for Raw Materials and in this capacity handled iron ore and coal mine expansions, a major zinc concentrator project, and large capacity marine facilities for foreign ores. In 1954, Mr. Michaelson took the Kennecott post he now holds.

Mr. Michaelson has been prominent in AIME activities for many years. He was Chairman of the Minerals Beneficiation Division and a member of the Council of Education. He has served as President of the Society of Mining Engineers of AIME and as a Vice President and Director of AIME. He is a Counselor of the Mining and Metallurgical Society of America.

(Continued on page 4)

tana School of Mines chapter of the American Society for Metals. The speakers were A. C. Bigely Jr., Research Engineer for the Anaconda Co., K. D. Loughridge, Superintendent, East Helena Plant, American Smelting and Refining Company, and Cecil Kirk, Vice President in charge of operations, Montana Power Company. The speakers talked mainly on what industry desired in an engineer's school record, the manner in which an engineer should conduct himself during an interview, and the initial duties and responsibilities of the engineer. A question and answer period followed the talks.

The Montana School of Mines chapter of the ASM hopes to present a monthly program of talks if qualified speakers can be obtained. George Vivian is chairman of this professional organization which was recently formed and consists of 34 members. Meetings are held the first Wednesday night of every month and any engineering student interested in physical metallurgy is invited to attend. The ASM distributes a variety of literature of interest to the metallurgy student including "Metals Progress."

Three Go to New York

Three faculty members at Montana School of Mines will attend the annual AIME meeting in New York City, February 18 through 22.

Dr. Edwin G. Koch, president of the college, professor Douglas H. Harnish, Jr., head of the department of petroleum engineering and Dr. Walter C. Hahn, Jr., assistant professor of metallurgical engineering will represent the school at the meeting.

Dr. Koch will also attend a meeting on Mineral Industry Education at Columbia University on Friday, February 16. This meeting is sponsored by the National Research Council of the National Academy of Sciences.

Dr. Hahn will present a paper before the metallurgical section of the AIME.

Professor Harnish has accepted appointment to the Student Affairs Committee of the AIME Petroleum Section and will be assigned his duties at this meeting.

Mines Students Capture Speed Skating Honors In Canadian Contest

Sylvia White — North American Olympic Style Women's Speed Skating Champion

School of Mines student and 1961 MSM Homecoming Queen, Sylvia White was recently crowned women's speed skating champion in the North American Olympic meet in Edmonton, Alberta, Canada, Sunday, February 11, thus bringing honor to herself, her school, and her hometown, Butte. Born in Seattle, Washington, Sylvia has lived in Butte for the past ten years. A 1961 graduate of Butte High School, she now is a freshman at the Mines, and plans to major in foreign languages. She has studied French and Spanish and would like to go into work in the foreign service. Besides carrying seventeen credit hours, Sylvia also works at the Butte Recreation Department a secretary for Bob Sparks.



SYLVIA WHITE

Among the several skating titles Sylvia holds are the Montana State Outdoor, the Western International Outdoor, and her most recent, the North American Olympic Style. Sylvia has skated for eight years and now holds several titles and her trophies number twenty-one.

Sylvia's future plans include preparations during 1962-63 to try out for the 1964 Olympics, which will be held in Innsbruck, Austria. Almost everyone on campus knows Sylvia, a 5'5", blue-eyed blonde, with a sparkling personality and we all wish her the best for the Olympic try-outs.

Sylvia, her brother, Martin White, and Jack Walsh, who have all attended MSM, and Judy Morstein took ten awards in competition with the best skaters in Canada and the United States.

Sylvia, who was trailing 1960 Canadian Olympic skater Doreen Ryan after the first day of events—due to her falling and failing to place in the 1500 meter race—came through with first place finishes in the 1,000 and 3,000 meter races.

In the men's racing, Jack Walsh and Martin also took honors. Jack was first in the 500 meter race (beating Dick Hunt, member of the 1960 Olympic team), 5th in the 1,500 and 11th in the 5,000. Martin finished 4th in the 1,500 and 12th in the 5,000.

In the first such Olympics held for North America, the Butte skaters took four first place trophies, one divisional trophy, one first place plaque, one second place spoon and three third place spoons.

Mr. and Mrs. Stewart White are the parents of Sylvia and Martin. Jack's parents are Mr. and Mrs. John Walsh.

Magma Organizes

The MSM students have begun work on the Magma, which is the School of Mines yearbook. The staff was announced as follows: Co-editors: Jack Thomas, Frank Larvie; Copy editors: Dave Rovig, Doug Mason; Sports: Gary Hauser; Events: Paulette Kankelborg, Jo Ann Boyle; Class editors: Betty Pryor, Amy Jacobson; Faculty: Sharon Breen; Organizations: Beverly Phillips, Barbara Sessions; Business manager: Ed Shumaker; and Assistants: Joe Keane and Veanne Burns.

(Continued on page 2)

AIME President-Elect Pierce Meets Mines Seniors and Alumni



Roger Pierce of Salt Lake City, president elect for 1963 of the American Institute of Mining, Metallurgical and Petroleum Engineers, was in Butte on Monday, February 5. Mr. Pierce, a graduate of Montana School of Mines, attended an informal gathering of alumni and Mines seniors. The gathering was held at the 4-B's Cafe. From left to right are George Vivian, Butte, president of the first student chapter in the United States of the American Society for Metals; Bob Johnson, Anaconda, student body president; Paul Fossey, Lander Wyoming, president of the senior class; Bill Pickard, Miles City, president of the Anderson-Carlisle Society; George Gale, Anaconda, president of the Mines Alumni Association; Ed Bonner, alumni vice president, and Pierce.

Newman Club News

The MSM Newman Club has completed a schedule for the spring semester starting February 12, and continuing until May 14. The club hopes to attain interest of all students by the various lectures which will include St. Paul's Theology: on Paulism, Mankind before Redemption, St. Paul and the Person of Christ, The Work of Redemption, Effects of the Redemption, and The Christian Life.

On February 12, members of the club were given a diagnostic test on St. Paul's Theology. At the end of the semester, after completion on the course, an examination will be given to evaluate the course.

Anyone wishing to attend the lectures will find them most interesting and informative. The meetings are held each Monday evening from 7:00-8:00 p.m.

A.I.M.E. Sees Flick

On February 6, a meeting of the Anderson-Carlisle Society of the A.I.M.E. was held at the Copper Lounge. A movie, "George Spelvin, Professional Engineer," was shown. The movie depicted the life of a successful engineer and the rewards of an engineering career (i.e. Fame, Fortune, Beautiful Women, etc.). Following the meeting, members enjoyed coffee and donuts and a congenial bull session.

AMPLIFIER STAFF

EDITORIAL STAFF

| | |
|-------------------------|---------------------|
| Co-Editors | G. Hauder, V. Burns |
| Make Up Editor | E. Davis |
| Feature Editor | B. Pryor |
| Sports Editor | G. Hauder |
| Assistant Sports Editor | M. Lewis |

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|------------------------|----------|
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| Asst. Business Manager | P. Boam |
| Photographer | |

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ARTCRAFT PRINTERS BOZEMAN, MONTANA

EDITORIAL

Where Is Your School Spirit?

Recent controversies have arisen over the quality of school publications, particularly the *Amplifier* and the *Magma*.

If this criticism is valid, the main reason for the lack of quality in these publications is that the so-called Engineering student seems to be too high and mighty to lower himself into a position where criticism may develop against him.

Is it that his talents do not go beyond the fact that he can add 2 and 2 and get 4 for an answer.

Is it that if his brains were required to reason something out where a background of culture or humanitarian intellect were required, he would be lost for words?

It is true that when asked if he would help make these institutions better, he merely replies that he doesn't have enough time. Why then does he have time to frequent the local pubs?

Certainly, it is true that much just criticism can be directed toward the *Amplifier*. It can be said of it that it lacks an engineering point of view.

It can also be said that this lack is due to the lack of participation on the part of the engineering students, particularly those clever ones who spend hours organizing their criticism against it.

Kennedy Invites Koch To Capital

President Kennedy has invited Dr. Edwin G. Koch, President of Montana School of Mines, to attend the President's Conference on Occupational Safety, to be held in Washington, D. C., March 6-8, 1962.

The Conference will bring together in the Nation's Capital more than 3,000 leaders of American industry, labor, agriculture, Federal, State, and local governments, insurance, education, science, health, and private safety organizations from all parts of the country.

Their purpose is to devise and then apply voluntary, cooperative means for reducing the 13,800 deaths and nearly 2 million disabling injuries occurring annually because of on-the-job accidents.

Program emphasis of the 1962 meetings will underscore the fact that 80 percent of all job injuries occur in non-manufacturing activities. Hence, Conference delegates will concentrate on safety problems in such lines of work as agriculture, construction, trade and service business, materials handling, and government. They will seek ways to minimize the Nation's losses in manpower, technical skill, human suffering, and financial waste that job accidents are causing.

This effort is summarized in the Conference theme: "Safeguarding Human Worth."

Geared to the concern of Americans in all walks of life for the safety and well-being of their fellow citizens, the 1962 Conference is the eighth biennial meeting since its establishment by President Truman in 1948. President Eisenhower continued these conferences throughout his term of office, and President Kennedy, soon after his inauguration, requested Labor Secretary Arthur J. Goldberg to "continue and re-energize this voluntary association of management, labor, and government." Mr. Goldberg serves as general chairman of the Conference.

The President has personally attended all conferences except in 1960, when the Vice President represented him during the former's absence on an official trip to South America.

MAGMA ORGANIZES—

(Continued from page 1)

An Engineering Theme has been chosen for this year's book. Individual pictures are presently being taken at Williams Camera Shop and a schedule for group pictures will be announced. The target date for the release of the *Magma* for 1962 is May 22.

The staff will be meeting regularly on Wednesday at 7:30 at night. Anyone that would like to give assistance will be welcome to attend.

COMING EVENTS

FEBRUARY

- 21—Geophysical Services (a rescheduled meeting). Interviewer will be Mr. Wagoner.
- 22—Washington's Birthday.
- 32—Mines vs. Northern—here.
- 26—Texaco, Inc. (return visit). Representative — Mr. Kittrell.
- 26—Student Wives Bridge Club in Coed Room—7:30 p.m.
- 27—U. S. Department of the Interior, Bureau of Land Management interview. Professor Vine in charge of the interview.

MARCH

- 12—Student Wives Bridge Club in Coed Room—7:30 p.m.
- 20—Pan American Petroleum Corp.—Representative is Mr. A. M. Roney, Producing Department.

AIME Meets At Mines

A meeting of the Montana Section of the AIME was held on January 23, at Montana School of Mines in Butte, Montana.

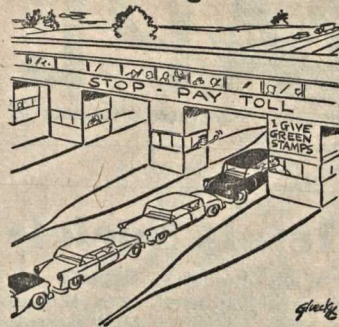
Koehler Stout, Associate Professor of Mining at Montana School of Mines, gave a talk entitled "Teaching Is A Never-Ending Job of Industrial Supervisors."

A report was given on the progress of preparing for the Rocky Mountain Minerals Conference to be held in Butte this coming September 19, 20, and 21. Between 500 and 800 people are expected to attend the three-day conference. During the three days of the conference, business sessions and trips are planned. Underground tours of the "Richest Hill on Earth" are also planned along with visitations to the smelters. Senator Mike Mansfield of Montana, the Senate Majority Leader and the Governor of Montana will be invited to attend.

Western Field Secretary, Cliff Hicks from Salt Lake City was in attendance and said a few words to the members.

Due to sub-zero temperatures and treacherous highway conditions, there were only 25 persons present.

My Neighbors



Over in Africa some of the native tribes have the custom of beating the ground with clubs and uttering spine-chilling cries. Anthropologists call this a form of primitive expression. Over here in America, we call it golf.

There was a sultan who stocked a harem with 100 beautiful wives four miles from where he lived. Every day he sent his manservant to get one of the wives. The sultan lived to be 90, but the manservant died when he was only 30.

The moral of this story? It's not the women that kill you, it's the running after them.

Roadside diner: A place where you can eat dirt cheap.

Hall Council to Act

The Hall Council of the Residence Hall held a meeting on February 7 at 6:00 p.m. in the Main Lounge. The main topic of discussion was a letter received from President Koch concerning conditions in the Hall. Among the conditions that exist are excessive noise, filthy rooms, alcoholic beverages in the dorm, and general destructive practices carried on by the students living in the dorm. To rectify the present conditions, the Council decided to enforce the rules and regulations more rigidly than has been the practice in the past. This will mean enforcement of quiet hours and inspection of rooms. President Koch said that if the Hall Council did not correct present conditions he would be forced to abolish the Hall Council and enforce the rules by his own means.

Cupid Fires Volley

The former Jo Ann Kriskovich, coed at MSM last year, was recently married to John O'Neill of this city. JoAnn was an honor roll student and candidate for 1960 Homecoming Queen. The couple were married Saturday, January 27, 1962, in St. John's Church. The groom attends Carroll College in Helena.

HONOR ROLL

| Name | Home | Class | February 3, 1962 | | |
|-----------------------|--------------------------|------------|------------------|--------|-------|
| | | | Credits | Points | Index |
| Erickson, Edward J. | Butte | Junior | 12 | 48 | 4.00 |
| Hagenson, Martin S. | Butte | Fr. Eng. | 18 | 72 | 4.00 |
| Hill, Robert B. | Butte | Soph. Eng. | 17 | 68 | 4.00 |
| Platt, Wilma M. | Butte | Fr. Gen. | 17 | 68 | 4.00 |
| Awan, Mansoor A. | Quetta, Pakistan | Fr. Eng. | 20 | 77 | 3.85 |
| Vincelette, James F. | Billings | Fr. Eng. | 19 | 73 | 3.84 |
| Herring, Allan P. | McMinnville, Oregon | Senior | 18 | 69 | 3.83 |
| Johnson, Robert E. | Anaconda | Senior | 18 | 69 | 3.83 |
| Saperstein, Lee W. | Elmhurst, New York | Soph. Eng. | 24 | 92 | 3.83 |
| Edwards, William J. | Butte | Fr. Gen. | 17 | 65 | 3.82 |
| Mannix, Sandra L. | Butte | Soph. Gen. | 16 | 61 | 3.81 |
| Simonich, Edward L. | Butte | Fr. Eng. | 19 | 71 | 3.74 |
| Newman, Bill H. | Elliston | Fr. Eng. | 18 | 67 | 3.72 |
| Chandler, Alden B. | Butte | Fr. Gen. | 15 | 55 | 3.67 |
| Berryman, John G. | Butte | Fr. Gen. | 14 | 51 | 3.64 |
| Arne, Kenneth G. | John Day, Oregon | Soph. Eng. | 24 | 87 | 3.63 |
| Bingaman, Melvin O. | Butte | Fr. Gen. | 15 | 54 | 3.60 |
| Coghlan, William A. | Manhattan | Junior | 20 | 72 | 3.60 |
| Strobel, Calvin J. | Terry | Soph. Eng. | 24 | 85 | 3.54 |
| Fossey, Paul A. | Lander, Wyoming | Senior | 15 | 53 | 3.53 |
| Conway, James T. | Butte | Junior | 17 | 60 | 3.53 |
| Gillette, Christopher | Rocky River, Ohio | Junior | 22 | 77 | 3.50 |
| Parekh, Kishore M. | Bombay, India | Soph. Eng. | 19 | 66 | 3.47 |
| Bray, Donald | Big Timber | Senior | 20 | 69 | 3.45 |
| Dexling, Manfred H. | Rochester, New York | Fr. Eng. | 18 | 62 | 3.44 |
| Wilkes, LeRoy E. | Boise, Idaho | Fr. Eng. | 18 | 62 | 3.44 |
| Cockhill, Brian E. | Butte | Fr. Gen. | 14 | 48 | 3.43 |
| Bilyeu, Bradley D. | Wolf Point | Junior | 24 | 82 | 3.42 |
| Herring, Mary F. | Portland, Oregon | Fr. Gen. | 15 | 51 | 3.40 |
| Banning, William R. | Dillon | Fr. Eng. | 18 | 61 | 3.39 |
| Keup, Kari M. | Butte | Soph. Gen. | 18 | 61 | 3.39 |
| Roberts, Janice A. | Butte | Fr. Gen. | 18 | 61 | 3.39 |
| Kruska, Donald G. | Lutherville, Maryland | Fr. Eng. | 19 | 64 | 3.37 |
| Grinde, Paul A. | Butte | Fr. Gen. | 14 | 47 | 3.36 |
| Thompson, Gordon W. | Keremeos, B.C., Canada | Fr. Eng. | 20 | 67 | 3.35 |
| Penny, Palmer J. | Butte | Fr. Eng. | 18 | 60 | 3.33 |
| Sullivan, John P. | Butte | Fr. Gen. | 15 | 50 | 3.33 |
| Toivonen, Robert W. | Butte | Fr. Eng. | 18 | 60 | 3.33 |
| Jones, John E. | Butte | Soph. Gen. | 13 | 43 | 3.31 |
| Newman, Robert D. | Elliston | Senior | 23 | 76 | 3.30 |
| Trask, Frank III | Anaconda | Soph. Eng. | 24 | 79 | 3.29 |
| Hernan, Ronald W. | Anaconda | Fr. Eng. | 18 | 59 | 3.28 |
| Higinbotham, Samuel | New Oxford, Pennsylvania | Fr. Eng. | 18 | 59 | 3.28 |
| Koskimaki, Carl M. | Butte | Fr. Eng. | 18 | 59 | 3.28 |
| Beamer, Susan | Butte | Fr. Gen. | 12 | 39 | 3.25 |

AVERAGE OF CLASSES REPRESENTED ON HONOR ROLL

| | | | |
|-----------------------|------|----------------------|------|
| Sophomore Engineering | 3.63 | Freshman General | 3.54 |
| Junior | 3.61 | Freshman Engineering | 3.51 |
| Senior | 3.59 | Sophomore General | 3.50 |

Advanced scholarships at Montana School of Mines for the year 1962-1963 will be awarded to engineering students whose indexes are the highest on the honor rolls of this year. See page 62 of the catalog.

In order to be eligible for the Honor Roll, a student must carry 12 hours and have an index of at least 3.25.

W. M. BROWN, Registrar

THE SPORTS SCENE

By GARY HAUDER
Sports Editor

The Intramural Scene

Everything looked rosy for the intramural basketball league this year with twelve teams signing up to play. But as in previous years there are the same old difficulties—stacked teams, poor referees, and general neglect of the rules.

Now to get down to specifics, there are organizations that have made up a team of their best players, a second team of their second best and so on down the line. Then there are players who, not only play for one team, but for three or four. Refereeing is another sour subject, just because a person plays for a varsity squad doesn't qualify him to officiate. There is one referee who seems to know no more about basketball than the average Co-ed. In fact he can be seen gainfully watching the clock or some other unrelated subject rather than paying attention to the game he is supposed to be officiating.

If there is such a willingness on the student's part to participate for exercise and the sportsmanship gained from the sport, why can't there at least be officials that are a bit interested in calling a decent game?

These are situations that actually exist and if you are interested, just talk to any of the players and I'm sure if they are truthful they will be happy to tell you of the different situations that exist besides those mentioned.

Intercollegiate Sports?

The question has been asked many times whether intercollegiate sports should be curtailed here at the Mines?

Well before we try to arrive at an answer, we should examine the facts. For the school year 1961-62, \$5980 was appropriated for the sports program here at MSM. Secondly, we have one of the longest losing streaks in the nation in football. The last winning basketball team, percentage wise, was in unit form about 15 to 20 years ago. The last baseball team to finish over the .500 mark was fielded two years ago when the Mines took the Montana Collegiate Conference title.

Under present conditions with everyone yelling to have the costs cut and everything, you'd think they would do something about the sports situation. There are two evident alternatives at the present time. The first solution would be to give athletic scholarships and the second solution would be to cut out the intercollegiate program and enlarge and better the intramural program.

It seems senseless to spend as much as the school does and not get anything in return except the "satisfaction of knowing you participated." Why should we be in a league where everyone but us gives athletic scholarships and still expect to win. The course of logic would tell you who would win when one team fields a team of "paid athletes" and another team fields "amateurs."

We might stand a better chance of winning a few games if our present players were to keep better training rules. What ever happened to rules like no smoking, getting plenty of sleep, and no drinking alcoholic beverages. After one of the recent basketball games it was reported that some of the players were seen fairly well "plastered" in a local bar. Is this a proper way for an athlete to conduct himself? Seemingly, the main reason Coach Simonich does not enforce such rules is fear of losing his team members and eventually the whole team.

Anyone can see how out-classed we are by looking at the recent winning margin of our opponents in basketball. Western won by 56 points, Carroll College by 55 and Eastern by 42. It is true, however, that some of our first string were not playing due to scholastic difficulties.

Rocky Defeats Mines Again 46-64

Rocky Mountain College of Billings defeated MSM at the Miners' home court by a 46-64 score. It was hoped before the game that the Mines might be able to pull the same trick they did a year ago and upset Rocky but as the outcome of the game showed, they were unsuccessful.

Rocky was in the lead from the opening basket to the final whistle. Rocky got the opening tap and jumped into the lead on Ron Nelson's basket. Jim Conway came back for the Mines with a foul shot to make the score 1-2. Roger Berry in turn sank two foul shots for Rocky but John Badovinac drove in for a lay-up and the score was 3-4. John Sheron scored for Rocky, followed by a foul shot by Robbie Harrington of the Mines. Larry Ness tipped the ball in for another score for Rocky. Tom Liebsch next scored on a shot from inside the key and sank a foul shot to bring the score to an 8-10 tune. John Sheron sank two fouls, Ron Nelson put in a jumper from the corner. Henry Pretty-On-Top scored with a dead-eye set shot and John Sheron scored two more fouls to bring the score up to 8-19. Tom Liebsch scored for the Mines on a jump. John Sheron scored again on two foul shots and a driving lay-up. Ron Nelson scored on a jumper to make the score 10-25. Tom Liebsch on a one and one situation made two to make the score read 12-25. Mines made a quick attempt at closing the gap on a drive by Robbie Harrington, a jumper by Jim Conway and another shot by Conway from the foul line brought the score to 18-27. Robbie Harrington made a fast break for a score and the scoreboard read 20-29. With two minutes left in the half the subs came in for the Mines. Arnie Gutfeld scored for the Mines on a foul shot to make the score read 21-33. At the end of the first half the score read 21-33. The lack of height hurt the Mines in rebounding which was the cause of the large point spread.

Neither team was hitting from the field, so the real difference was on the boards.

The Mines opened the second half in another fast attempt to close the gap on a set shot by Pat Marx, John Badovinac's fast-break lay-up and a jumper. The score read 27-36. John Sheron made three fouls and threw in a three-point play to move Rocky up to a 29-42 score. John Badovinac made two fouls to move the Mines up to a 31-42 score. Bob Lemelin finally found the range and sank three in a row. On two fouls by Larry Nees and a drive by Sheron the score read 37-49. Tom Liebsch scored and the score was 39-49. Lemelin scored again and then John Ragan put on a personal scoring barrage with a set, a dunk shot, two fouls and a tip in, thus bringing the score up to 42-59. John Badovinac made a three point play and Bill Lane completed the Mines' scoring with a foul shot and the final score was 46-64.

| MINES (46) | | | | |
|------------|----|----|----|----|
| | G | F | P | T |
| Lemelin | 5 | 1 | 1 | 11 |
| Conway | 2 | 2 | 3 | 6 |
| Stadler | 0 | 0 | 1 | 0 |
| Marx | 1 | 0 | 4 | 2 |
| Ylitalo | 0 | 0 | 1 | 0 |
| Liebsch | 3 | 3 | 2 | 9 |
| Gutfeld | 0 | 1 | 0 | 1 |
| Harrington | 2 | 3 | 4 | 7 |
| Lane | 0 | 1 | 3 | 1 |
| Badovinac | 4 | 3 | 2 | 11 |
| Totals | 17 | 14 | 21 | 46 |

| ROCKY (64) | | | | |
|---------------|----|----|----|----|
| | G | F | P | T |
| Sheron | 7 | 5 | 4 | 19 |
| Nees | 1 | 5 | 4 | 7 |
| Fagan | 6 | 5 | 2 | 17 |
| Nelson | 5 | 2 | 3 | 12 |
| Holmquist | 0 | 0 | 2 | 0 |
| Berry | 0 | 2 | 0 | 2 |
| Pretty-On-Top | 3 | 2 | 0 | 8 |
| Jennings | 0 | 0 | 1 | 0 |
| Totals | 22 | 21 | 16 | 64 |

Carroll Gets Revenge

The Carroll College Saints made a display of their many talents in rolling over MSM by the score of 90-35.

The Saints got the opening toss but missed the basket. The Mines moved down court and John Badovinac put the ball in for the Mines. Tom Liebsch scored for the Mines to keep them in the lead 4-2. Liebsch got the ball again and was fouled, he sank the foul shot to bring the score up to a 6-3 tune. Lowney scored for Carroll on a corner jump to make the score 6-5 and Sirokman also hit on a jump to put the Saints into the lead at 6-7 after four minutes of play. Lowney drove in for a layup to make the score 6-9. Jim Conway made a foul shot for the Mines to make the score 7-9. Robbie Harrington then stole the ball to tie the score 9-9. Darcy put a layup in and 2 foul shots to bring the score up to 9-13. Pat Marx scored for the Mines from the corner to make the score 11-15. Sirokman scored on a foul line jumper for the Saints. John Badovinac scored for the Mines on a foul shot to make the score 12-17. Darcy made a foul shot and a jumper to bring the score up to 14-22. Sirokman scored on a lay-up, Drew made a 3-point play, Dockstader converted an interception and Lowney made two foul shots to bring the score up to 14-33. Drew and Morigeau made foul shots but Tom Liebsch came back with a hook to make the score 17-37. McKittreck scored on a jumper and made the score 17-41. With 3 minutes left in the half, Arnie Gutfeld made a foul shot and the score was 18-43. Drew made 2 foul shots and McKittreck scored to make the score 18-47. John Badovinac scored for the Mines to bring the score up to 20-47, for the end of the first half. In the first half Carroll was too much for the Mines on the boards. The Mines made costly fouls throughout the first half and they were mostly 2-shot fouls. In the first half the Mines had 11 fouls and Carroll had 7.

Two minutes into the second half Jim Conway fouled out. Burns sank two fouls and a jumper to make the score 20-51. Robbie Harrington sank a one hander to bring the score up to 22-51. John Badovinac then sank a foul shot for the Mines. McKittreck made two foul shots and a jumper and Morigeau scored on a jumper to bring the score to a 23-56 tune. Tom Liebsch scored on a hook and the score read 25-56. After a jump by Saints' Dockstader and a foul shot by Pat Marx of the Mines the score read 26-64. Carroll now began to run the Mines into the floor on quick scores, they opened up the margin until the score was 33-84 with two minutes left to play. The final score for the Mines came on a drive by Rod Ylitalo and the final score was 35-90.

| MINES (35) | | | | |
|------------|---|---|---|---|
| | G | F | P | T |
| Conway | 0 | 2 | 5 | 2 |
| Ylitalo | 2 | 0 | 1 | 4 |
| Marx | 2 | 2 | 5 | 6 |
| Stadler | 0 | 0 | 2 | 0 |
| Liebsch | 3 | 2 | 1 | 8 |
| Gutfeld | 0 | 1 | 1 | 1 |
| Lind | 0 | 0 | 2 | 0 |
| Harrington | 3 | 0 | 3 | 6 |
| Gow | 1 | 0 | 1 | 2 |
| Badovinac | 2 | 2 | 2 | 6 |
| Smith | 0 | 0 | 0 | 0 |

| CARROLL (90) | | | | |
|---|----|----|----|----|
| | G | F | P | T |
| Darcy (23) | 5 | 3 | 2 | 13 |
| McKittreck (13) | 5 | 5 | 1 | 15 |
| Lowney (25) | 2 | 5 | 1 | 9 |
| Dockstader (55) | 6 | 1 | 3 | 13 |
| Burns (11) | 2 | 1 | 1 | 5 |
| Morigeau (31) | 3 | 1 | 1 | 7 |
| Sirokman (43) | 4 | 0 | 0 | 8 |
| Evans (21) | 4 | 5 | 1 | 13 |
| Drew (35) | 1 | 0 | 4 | 2 |
| Olson (51) | 2 | 1 | 2 | 5 |
| Foul shooting—Carroll, 75 per cent; Mines, 50 per cent. | | | | |
| Personal fouls — Carroll, 16; Mines, 24. | | | | |
| Mines | 20 | 15 | 35 | |
| Carroll | 47 | 43 | 90 | |

Mining Prof: Describe the mechanism of a steam shovel.
Student: Don't kid me, you can't shovel steam.

The Saints from Carroll College pulled far ahead in the first half of play Friday, February 9, to defeat the Mines for the second time this year, thus, again getting revenge for the last Mines-Carroll football game.

Doing most of the scoring for the Mines were John Badovinac with 15 and Tom Liebsch with 11. Dumping most of the baskets in for the Saints was Dean Morigeau, the high point man of the game with 16 points, while Darcy and Burns both tallied 14.

Coach Ed Simonich said his team worked its patterns well and had a good number of shots at the basket but just couldn't seem to hit.

The final score of the game was 80-39 with Carroll out in front.

| MINES (39) | | | | |
|------------|----|---|----|----|
| | G | F | P | T |
| Conway | 2 | 0 | 5 | 4 |
| Stadler | 1 | 0 | 0 | 2 |
| Marx | 1 | 2 | 3 | 4 |
| Ylitalo | 1 | 1 | 1 | 3 |
| Liebsch | 4 | 3 | 3 | 11 |
| Gutfeld | 0 | 0 | 0 | 0 |
| Badovinac | 6 | 3 | 3 | 15 |
| Smith | 0 | 0 | 0 | 0 |
| Lane | 0 | 0 | 2 | 0 |
| Totals | 15 | 9 | 17 | 39 |

| CARROLL (80) | | | | |
|---------------------------------|----|----|----|----|
| | G | F | P | T |
| Darcy | 6 | 2 | 0 | 14 |
| Cochrane | 1 | 2 | 1 | 4 |
| Morigeau | 6 | 2 | 1 | 16 |
| Brown | 1 | 0 | 1 | 2 |
| Langhi | 1 | 0 | 1 | 2 |
| Drew | 0 | 0 | 0 | 0 |
| Dockstader | 2 | 2 | 4 | 6 |
| Kelleher | 2 | 0 | 3 | 4 |
| Burns | 6 | 2 | 0 | 14 |
| Vanderg't | 0 | 2 | 0 | 2 |
| Evans | 2 | 2 | 1 | 6 |
| McKittreck | 3 | 0 | 1 | 6 |
| Reno | 1 | 4 | 3 | 6 |
| Totals | 31 | 18 | 16 | 80 |
| Halftime: Carroll 54, Mines 18. | | | | |

Eastern Rolls Over Mines 93-51

MSM lost a lopsided game to Eastern Montana College of Education at Billings. The Miners were highly outclassed as shown by the final score of 93-51.

In scoring only one Miner reached double figures and that was John Badovinac with 16 points. There were five Eastern players that got into the double figure bracket. Hereim with 10 points, Munford with 17, Drumm with 11, Coulter with 16 and Rinella with 11 points.

Three Miners fouled out of the game. They were Jim Conway, Pat Marx, and Tom Liebsch.

Eastern scored over twice as many field goals as the Mines by a 39-18 clip.

| MINES (51) | | | | |
|------------|----|----|----|----|
| | G | F | P | T |
| Conway | 4 | 1 | 5 | 9 |
| Ylitalo | 0 | 4 | 2 | 4 |
| Marx | 0 | 0 | 5 | 0 |
| Stadler | 1 | 5 | 3 | 7 |
| Liebsch | 3 | 2 | 5 | 8 |
| Gutfeld | 1 | 0 | 0 | 2 |
| Harrington | 1 | 3 | 4 | 5 |
| Badovinac | 8 | 0 | 0 | 16 |
| Smith | 0 | 0 | 1 | 0 |
| Totals | 18 | 15 | 25 | 51 |

| EASTERN (93) | | | | |
|--------------|----|----|----|----|
| | G | F | P | T |
| Hereim | 5 | 0 | 0 | 10 |
| Teegarden | 1 | 2 | 3 | 4 |
| Emery | 4 | 0 | 0 | 8 |
| Munford | 7 | 3 | 4 | 17 |
| Drumm | 4 | 3 | 4 | 11 |
| McInteer | 1 | 1 | 2 | 3 |
| Golub | 0 | 1 | 2 | 1 |
| Coulter | 6 | 4 | 2 | 16 |
| Shaffer | 3 | 0 | 3 | 6 |
| Soft | 1 | 0 | 0 | 2 |
| Rinella | 5 | 1 | 1 | 11 |
| Price | 2 | 0 | 0 | 4 |
| Reynolds | 0 | 0 | 1 | 0 |
| Totals | 39 | 15 | 22 | 93 |

Rocky Passes By Mines 63-47

The game with the Orediggers which was supposedly going to be a push over for Rocky Mountain College of Billings turned into a nip and tuck battle. The Mines were always within striking range but never quite capable of closing the gap.

The difference in score could probably be attributed to the greater accuracy of Rocky on the foul line. Rocky committed 21 personals compared with 14 for the Mines. The Mines only scored 8 points from the foul line where Rocky scored 15 points.

The Rocky attack was well balanced, so the Rocky coach decided to give the second string players some experience but the Mines took advantage of the situation and drew too close for comfort in the eyes of the Rocky coach so he threw the first string back in again to increase and preserve a winning margin.

Jim Conway led the Mines' scoring attack with 12 points. Pat Marx, Robbie Harrington and John Badovinac, each had nine points. Tom Liebsch contributed 6 points and Stew Stadler 2 points.

Sheron led the Rocky attack with 18 points and Fagan added 12 points in the course of the game.

| MINES (47) | | | | |
|------------|----|---|----|----|
| | G | F | P | T |
| Conway | 5 | 2 | 4 | 12 |
| Ylitalo | 0 | 0 | 0 | 0 |
| Marx | 4 | 1 | 4 | 9 |
| Stadler | 1 | 0 | 3 | 2 |
| Liebsch | 2 | 2 | 3 | 6 |
| Gutfeld | 0 | 0 | 0 | 0 |
| Harrington | 4 | 0 | 0 | 9 |
| Lind | 0 | 0 | 0 | 0 |
| Badovinac | 3 | 3 | 0 | 9 |
| Smith | 0 | 0 | 0 | 0 |
| Totals | 19 | 8 | 14 | 47 |

| ROCKY (63) | | | | |
|---------------|----|----|----|----|
| | G | F | P | T |
| Sheron | 8 | 2 | 3 | 18 |
| Nees | 1 | 4 | 2 | 6 |
| Henderson | 0 | 0 | 2 | 0 |
| Fagan | 5 | 2 | 4 | 12 |
| Heinle | 2 | 2 | 1 | 6 |
| Williamson | 3 | 1 | 3 | 7 |
| Nelson | 3 | 0 | 3 | 6 |
| Berry | 1 | 0 | 0 | 2 |
| Pretty-On-Top | 3 | 0 | 3 | 6 |
| Wirty | 1 | 0 | 2 | 2 |
| McDonnell | 0 | 4 | 0 | 4 |
| Totals | 27 | 15 | 21 | 63 |

Wanted: A Catcher

The Montana School of Mines baseball squad will be called to practice by the end of the month of February. Before the squad is cut, there will be two weeks of indoor exercises. Coach Simonich has said that to his knowledge, there is not a catcher attending the Mines. If you are a catcher, let Coach Simonich know at once.

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KOENIG AND MICHAELSON— (Continued from page 1)

Robert P. Koenig, of New York, President, Cerro Corp., has been named by the American Institute of Mining, Metallurgical, and Petroleum Engineers to receive its Charles F. Rand Award "in recognition of his leadership in guiding the expansion of a famous Peruvian mine into an international industrial company with diversified raw materials interests."

Presentation will be at the Institute's Annual Banquet, the evening of Feb. 21, during its national convention in New York.

As a Colonel of Engineers in World War II, Mr. Koenig achieved distinction in African and European operations. He became Chief of Solid Fuels Section on General Eisenhower's staff. His contributions were signalized with decorations including the U. S. Legion of Merit, French Legion of Honor, French Croix de Guerre with Palms, Belgian Croix de Guerre with Palms, Order of the British Empire.

His Harvard A.B. was with the highest honors in geology. Montana School of Mines conferred an honorary Doctor of Engineering degree.

Mr. Koenig's career began in 1925 with Cerro de Pasco Copper Corp., as an assistant geologist. He has held major posts with New Verde Mines Co., International Mining Corp., Montezuma Corp., Lehman Brothers, Electric Shovel Corp. He became President of Cerro Corp. in 1950.

The roll of company activities in responsible posts, as Chairman, President, Director, or Trustee, includes an impressive scope of industrial, financial and cultural interests, among them Banco Wiese (Lima), Empire Trust Co., Mutual Life Insurance Co. of New York, Circle Wire & Cable Corp., Fairmont Aluminum Co., Magma Copper Co., San Manuel Copper Corp., Berwind-White Coal Mining Co., New River and Pocahontas Consolidated Coal Co., Rio Blanca Copper Corp. Ltd., Compania Minera Andina, Atlantic Cement Co., Viking Copper Tube Co., The Cerro Fund, Cerro International, S. A., Cerro Exploration Co., American Museum of Natural History.

He has served at various time as Special Assistant to the U. S. Ambassador to the United Kingdom; Special Consultant to the Economic Cooperation; Administration and Acting Director of its Industry Division; Chairman (1948) President's Committee on Foreign Aid; Bituminous Coal Industry representative to the Coal Mines Committee, International Labor Organization; National Bituminous Coal Advisory Council.

Mr. Koenig's memberships include the American Institute of Mining, Metallurgical, and Petroleum Engineers; Canadian Institute of Mining and Metallurgy; Institution of Mining and Metallurgy, London; Mining and Metallurgical Society of America; Society of Economic Geologists. He is, also, the author of "An American Engineer Looks at British Coal."

The Charles F. Rand Award was established in memory of a former AIME President.

Mines Loses Another

Montana School of Mines lost another basketball game, this time to Northern Montana at Havre by the score of 76-47.

The Mines were hot and cold throughout the game. The first ten minutes saw the Mines score but two points and then in the next ten minutes of play score 22 points. At the end of the first half, the score was 36-24 in favor of Northern.

John Badovinac was high scorer for the Mines with 16 points followed by Tom Liebsch with 8 points. The Mines' lack of ability to score consistently and their inaccuracy from the foul line were contributing factors in the loss.

The winners were led in scoring by Forner with 16 points and Van Dessel with 10 points.

| MINES (47) | | | | |
|---------------|----|----|----|----|
| | G | F | P | T |
| Conway | 3 | 0 | 4 | 6 |
| Stadler | 0 | 0 | 0 | 0 |
| Marx | 1 | 0 | 4 | 2 |
| Ylitalo | 2 | 1 | 1 | 5 |
| Liebsch | 4 | 0 | 1 | 8 |
| Gutfeldt | 2 | 0 | 4 | 4 |
| Badovinac | 7 | 2 | 5 | 16 |
| Smith | 1 | 0 | 0 | 2 |
| Lane | 2 | 0 | 1 | 4 |
| Totals | 22 | 3 | 20 | 47 |
| NORTHERN (76) | | | | |
| | G | F | P | T |
| Forner | 7 | 2 | 0 | 16 |
| Van Dessel | 4 | 2 | 1 | 10 |
| Dunn | 3 | 0 | 1 | 6 |
| Alex | 1 | 5 | 2 | 7 |
| Eggen | 1 | 1 | 0 | 3 |
| Ennis | 3 | 2 | 1 | 8 |
| Flaggagan | 2 | 1 | 0 | 5 |
| Reichelt | 0 | 6 | 2 | 6 |
| Langston | 4 | 1 | 0 | 9 |
| Schulenberg | 2 | 2 | 2 | 6 |
| Totals | 27 | 22 | 9 | 76 |

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Tau Tales

At a meeting of Psi Chapter of Theta Tau held January 31, four pledges were initiated as active members and the officers for this year were elected.

Al Raihl, Gordon Austin, John Snyder, and Charles Olson are the new active members. Al Raihl from Terry, Montana, is a senior in the Mineral Dressing Department. Gordon Austin, a native of Thornton, Washington, is a sophomore studying Geological Engineering. John Snyder is a senior from Canada who will graduate with a Petroleum Option in Geological Engineering. Charles Olson, a sophomore from Butte, plans to study Metallurgical Engineering.

The officers elected are as follows: Marvin Senne, Regent; Cameron Brown, Vice Regent; William Tiddy, Scribe; Frank Panisko, Treasurer; James Conway, Corresponding Secretary; Charles Olson, Inner Guard; Bill Harris, Outer Guard; and Charles Palagi, Marshal.

Marvin Senne, the new regent, is a mean mining major from Rexford, Montana. When asked what he liked (next to school work), Marv replied, "girls, girls, girls in that order."

Cam Brown, elected as vice regent, is a dedicated petroleum major who had this to say about his new position, "I'm in favor of it."

Bill Tiddy, boy metallurgist, is a native of Butte. On serving as scribe Bill feels that he may have a little difficulty as he hasn't yet learned how to write.

The office requiring all the work fell to Frank Panisko, Butte metallurgist, who was elected treasurer. When asked to comment for the press, Frank replied, "Anybody who doesn't pay his dues is going to get the punch line."

Dr. William Hall was elected as the adviser for the coming year.

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Work, Study, Travel Abroad

Information on two special programs for students wishing to work abroad is now being offered by the U. S. National Student Association.

These two programs have been created to accommodate the many students desiring to work abroad. The programs begin with a period of two to four weeks spent working in either England or Israel, followed by a longer period of travel in surrounding countries.

The Israel and Western Europe Program begins with a two week stay in a co-operative work camp in Israel, working with the people there and learning about the life of the Israeli. The travel portion of the program takes the participant into Greece, Italy, Switzerland, France and England where they will see such delights as the Temple of Zeus, an outdoor opera in Rome, the Follies Bergere and a Shakespearean play at Stratford.

The English work program begins with a four week stay at an English student farm near London. The participants will join with students from all over the world to harvest England's strawberry crop. The final weeks of the program will be spent visiting Scotland, Ireland and Holland.

For further information on these and other work opportunities abroad, write USNSA, Dept. K, 2161 Shattuck Avenue, Berkeley 4, California.

Mineral Club Elects

On Tuesday evening, February 13, a regular meeting of the Mineral Club was held. The main order of business was the election of officers for the new semester. The new officers who will serve for the rest of the school year are Eddie Smith, President; Don Hruska, Vice President; and Sharon Breen, Secretary.

The Mineral Club is awaiting the arrival of new machinery which will be added to the equipment now in the Mineral Club's laboratory. Any student who is interested in rock-hunting, rock-polishing or anything having to do with minerals and the properties is cordially invited to attend the Club's meetings, which are held every Tuesday evening at 7:00 p.m. in the Mineral Laboratory in the Mill building.

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